

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 March 2004 (25.03.2004)

PCT

(10) International Publication Number
WO 2004/024079 A2

(51) International Patent Classification⁷: A61K

(21) International Application Number: PCT/US2003/028454

(22) International Filing Date: 10 September 2003 (10.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/409,447 10 September 2002 (10.09.2002) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application: US 60/409,447 (CON)
Filed on 10 September 2002 (10.09.2002)

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— without international search report and to be republished upon receipt of that report

(48) Date of publication of this corrected version: 17 March 2005

(15) Information about Correction:
see PCT Gazette No. 11/2005 of 17 March 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/024079 A2

(54) Title: METHODS AND COMPOSITIONS FOR PRODUCTION OF FLAVONOID AND ISOFLAVONOID NUTRACEUTICALS

(57) Abstract: The invention provides method and compositions for the modulation of flavanone and/or isoflavone production in plants. The methods of the invention allow creation of plants having novel phenotypes. Increased expression of isoflavones in particular in plants may be used to increase the nutritional value of food plants for both human and animal consumption. The invention overcomes limitations of the prior art which prevented accumulation of high levels of isoflavones in plants.